STOP THAT SQUEAK WITH A LUBRICANT

Tighten Belts Here and There and Use Oil Freely.

BY WILLIAM H. STEWART, JR., President of the Stewart Automo bile School.

"Squeak, squeak," said the car and again it said "squeak, squeak, squeak," while the driver pondered unmentionable thoughts. "This is one of the most annoying troubles while driving a car that is otherwise in good condition." that is otherwise in good condition."
says William H. Stewart, Jr., president
of the Stewart Automobile School
"The squeak may not be anything serious or it may indicate a trouble which
may grow to be dangerous. In any case
it gives the sensitive motories no resi it gives the sensitive motorist no rest

until it is removed.

"If the noise occurs when you apply the brakes it is evidently in the brake bands, but other places are not so readily located. For instance, if the car squeaks when you go over waterbars and other jounces the trouble may be in the springs, the spring shackles, the mud guards, fenders, where the body rests on the frame, or a multitude of other places.

tude of other places.
"But squeaks frequently occur in springs and spring shackles, particularly if neglected and allowed to run dry. In order to prevent this these parts should be gone over and thoroughly greased at frequent intervals. Jack up the frame to take the weight of the car off the springs. Spread the leaves apart, one by one, prying them open with a cold chisel or a screw driver with metal handle, using a medium weight hammer. The process will chip off some Now spread graphite-grease between the leaves, using a thin-bladed knife or a hack-saw blade. Use cylinder oil mixed with a little kerosene to reach in further than you can force the grease. This will frequently stop a squeak that cannot be reached by the

"In rare cases the springs will have to be taken off and the leaves taken apart to give them a thorough ciling. particularly if they have been neglected for a year or more and have become badly rusted. There is a special tool on the market for spreading spring leaves. This may be used to advantage. "Hoods find mudguards are frequent offenders. Inspect the strips of rawhide on which the hood rests. If these are broken or missing they must be replaced. Close down hood and see if it touches metal at any place. If it does a squeak is sure to develop. Stand on the spring hanger or the running board and chake the car up and down. This will cause the squeak to start, and it is then merely matter of injecting oil into all places where metal or wood may rub together. If possible tighten the parts and eliminate the cause. An oil gun, with which a heavy oil may be injected with con-siderable pressure, is a great help. Follow the whole length of the mud guards, the bottom and sides of the hood, the d fasteners, where running board and mud guards join, the radiator supports and every likely and unlikely place.

'If the brake band squeaks place a little, a very little, grease on drum in space where end of brake bands join. This will be carried into the lining and help stop the squeak. But use very little, as grease is not noted for its tendance of the squeak bands of the squeak in t

dency to make brakes hold,
"Keep at it and try again. Shake the
sar to draw the oil into the places men-tioned, and go over the work again and again until success crowns your efforts.

OFFERS DEMOUNTABLE TOPS.

Mitchell Company Has an Added Convenience for Owners.

"While we have as complete a line of closed car models as any company in the country," says President George Stowe of the Mitchell Motor Car Com-pany of New York, "our Racine facprovide winter protection of those who

The Mitchell idea of completeness is very strikingly emphasized by this per-lected demountable top for the Mitchell

A Page From Yesterday

HE first private garage con structed in New York city was built in the spring of 1900 by a prominent New York automobile enthusiast, who at that time owned

The Chinese looked with disfavor upon the early automobiles, fearing that their introduction into the land of tea would displace the porters, who were very numerous, from their jobs.

That even the early horseless carriage retained at least one characteristic of its honorable predecessor, the horse, is evinced by the following item written in 1900: "The claim advanced by the early ploneers that an autemobile could not run. an automobile could not run away like a horse is being disproved by actual experience. Accounts of auto-mobile runaways are not infrequent in the daily press."

In 1899 New York automobile laws allowed automobiles to travel not more than four miles around street

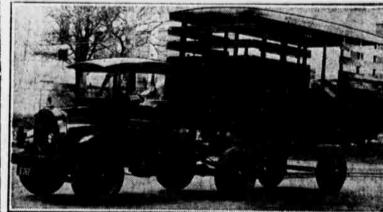
Among the first great institution of learning to officially recognize the motor car was Columbia University. In May, 1900, the faculty of that university announced a course in "Traction Engines and Carriages."

In discussing the relative merits of three and four wheel motor vehicles, an early automobile editor had this to say: "The three wheeler is not easy to eteer, her is it comfortable to ride in en any but the smoothest roads. When the average purchaser comes to lay out enough money to buy an automobile he soon concludes that he will be best pleased with a comfortable little four wheeler, which is easier to handle, safer and affords room for a companion by his side, and not tandem, as with the three wheeler."

In England during the early days of motor vehicles there was a de-cided preference for the name "motor house" rather than "garage."

That automobile speeding is not altogether a modern evil is proved by the following item of the date of September, 1900; "One of those multimillionaires whose residence is in Newport, R. I. has been amusing himself, whenever the humor pleased him, by mounting his French racing machine and smashing records over the roads to Boston, to the consterthe roads to Boston, to the conster-nation of the citizens and the dis-comfiture of the authorities en route. It is useless to undertake to overhaul his machine at full speed, so the po-lice have been compelled to waying the offender on his return journey, when, his thirst for breakneck speed having been for the moment sated, he is sauntering homeward at a more reasonable speed."

Fulton Locomotor and Semi-Trailer



be loaded or unloaded, and the locomo-tor is backed up to another trailer, coupled up in a second, and pulls away, all with little effort. The apparatus will

cent buyers is not only the compara-tively low initial cost but the low up-keep expense and the remarkable facil-ity with which the combination can move

goods when two or three trailers are used with the locomotor. It has been demonstrated that one driver with a lo-

REVIVAL OF RACING LIKELY.

Manufacturers.

war, is due for a revival this summer.

"This being true, would it not be e

good idea for American makers to get

together and adopt rules and conditions

of the type and size of motors they wish to develop and not wait for the Euro-

European makers adopt certain rules

and conditions, build cars to con-

form to them, test them out for

a year, then come over here and our

makers put out untested cars, designed

in a hurry to meet these conditions and are beaten by the foreigners, not through

any lack of merit of their cars, but due

almost entirely to the fact that their cars are not tuned up properly. "Let us decide on our own rules a

year in advance of contests and let the

"Automobile racing, checked by the

Much interest is being shown by New of by the driver, who simply pulls a small lever and all three things are accorded tractor and trailer. The value perated tractor and trailer. The value away, leaving the trailer standing to York business men in the automatically operated tractor and trailer. The value of a motor unit that hauls rather than carries loads is being generally recog-

company at the recent truck show is being demonstrated daily by W. I. Fickling and Morris Mason with unusually interesting results. Many large corporations are being shown how "the six wheel truck" operates, and several or-

ders already have been taken for imme-diate delivery.

The Fulton locomotor and trailer combination is built complete at the Fulton factory in Farmingdale, L. I. It is the only semi-trailer that is automatically operated from the driver's seat. Operation of the trailer brakes, the locking a small load are what make the operation of many trucks expensive.

BROOKLYN'S AUTO SHOW. Big Plans Under Way for Biggest Harry Houpt Says It Will Help

Brooklyn dealers are planning to make their eighth annual automobile show, which is to be held in the Twenty- Many European makers in an effort to third Regiment Armory March 29 to regain their position in the American April 12, the biggest ever held in Brook- market already are planning racing lyn. Like the exhibition last year it campaigns on speedways in this counwill be a "double header," the first week, try," says Harry S. Houpt, president of from March 29 to April 5, will be de- the Hudson Motor Car Company of New voted entirely to passenger cars, while the second week, from April 8 to April 12, will be entirely for commercial vehicles. Accessories and parts will be exhibited at both sections of the show. Last year the Brooklyn Motor Vehicle
Dealers Association staged the first commercial vehicle show held in Greater
New York since 1913 and it was as big
pean makers to do this for them? a success as the passenger car section. Judging by present indications the com-mercial vehicle section will be greater than ever before, for manufacturers and dealers realize the importance of Brook-lyn as good selling territory. There will be everything to interest the business man and farmer, from the light delivery

wagons to tractors.

Not only will Brooklyn dealers be represented but manufacturers and dealers from other cities have been allotted

space.

I. C. Kirkham, 1365 Bedford avenue, director of the show, says that practically all the space for both sections has been allotted, although there are yet several choice spaces to be had.

The Brooklyn show comes at a time sufficiently long after the New York show to bring out new ideas in both show to bring out new ideas in both

WOMEN WIN PLACES IN MOTOR INDUSTRY

Have Done So Well That They Will Retain Their Positions.

nercy; the men cannot crowd them out, because they are doing better work than

Export Expert



P. MATTHIESEN.

Reporting a wonderful outlook for automobile accessories in Denmark, Norway and Sweden, P. Matthieson, cars in the Scandinavian countries, ar rived here last week to close big cor tracts for passenger cers, trucks and tires. He is making his headquarters with W. R. Vogeler, export manager of the King Metor Car Company, at Broadway at Fifty-second street.

Mr. Matthiesen, who halls from Velle.

play our own game instead of playing "What I say is not inspired by anything the Hudson factory may do, as
they will probably rest on their laurels.

Mr. Matthiesen, who had strom vege
themselves and matthiesen, who had strom vege
the matthiesen, who had strom veget
the matthiesen who had strom the math Hudson super sixes hold all speedway records for cars of their class and the chines and did some unusual work durpassenger cars and trucks, particularly proceeds for cars of their class and the war for the Danish Government. World's transcontinental record. Hudson the time the show is held to add to their product new ideas which were not seen at the Manhattan show.

Why? They do it better and faster than the men.

The fact is that wherever in the manufacture with the cessation of hostilities and the gradual return to normal conditions woman is likely to play a more important part than would have been admitted by the most eanguine feminist a few months ago. The war is, of course, responsible directly for this fact. The war drew from the factories and other branches of the industry thousands of skilled workmen. They were replaced by inexperienced and more or less indifferent men at first, but at length women were introduced after some experiments to find out if they would do.

The readily the automotive is a call for definess and extended the work and the women are distancing the men. Welding on the water jackets is a vocation and probably will change averal times. Woman ever has had one particularly heavy labor; but the work must be done in a perfect manner, and of course there has been a call to do the same kind of work; they choose and extended the work and the women retails a vocation and probably will change a vocati

planes and motors to send them women men? Factory experience shows that mechanics; men or women wanted, but preferably women. It may be news to like to keep doing one thing all the time. Some that women play an important part in the production of the Liberty motors. These have a welded on water jacket, and the welding—oxyacetelyn or electric process—is done by women. Why? They do it better and faster than the men. it, to speed up and to do it better and quicker all the time. Possibly there is a reason for this. Man ever has been

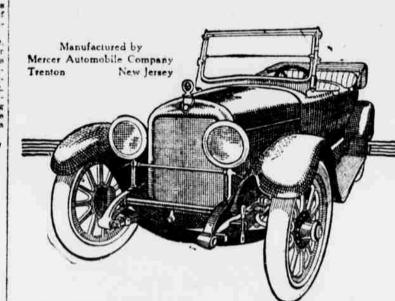


YOUR longing for a Mercer may now be fulfilled. You will enjoy its luxurious performance the more for having had to wait. The dependable might of its 73 horse-power, 4-cylinder engine; the charm and finesse of its design; the comfort and safety of its going throughout its vast range of speeds - these are once more available for those who prize

A Mercer owner drives his own car because he likes to.

Whiting Motor Company

1802 Broadway, New York 352 Central Avenue, Newark



the men ever did—better work and more work.

Take the airplane industry. For some time there has been a loud call for women in the factories and we have been beseeched by certain builders of planes and motors to send them women men? Factory experience shows that preferably women. It may be news to some that women play an important parf in the production of the Liberty motors. These have a welded on water lacket, and the welding—oxyacetelyn work and do it well is eaid to stick to

A Captain of Industry

Bethlehem dominates the "Dependable De-livery" field for every kind of service every kind of weather—on every kind of road; they are stout-hearted and strong of frame the famous Bethlehem motors are their hearts, and the famous Bethlehem overload capacity chassis their frames.

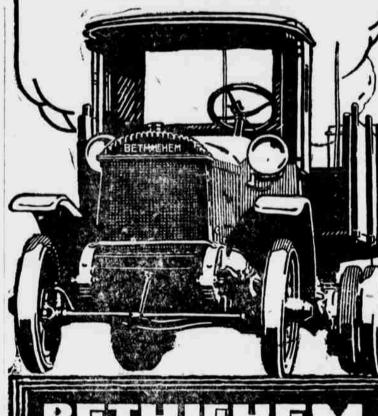
Bethlehem trucks put your business in the vanguard of good service because they are unfaltering, always ready—always equal to their tasks.

Bethlehem Internal Gear Drive Motor Trucks have Gray & Davis Electric Starting and Lighting. They are the trucks for today and tomorrow's business efficiency tests.

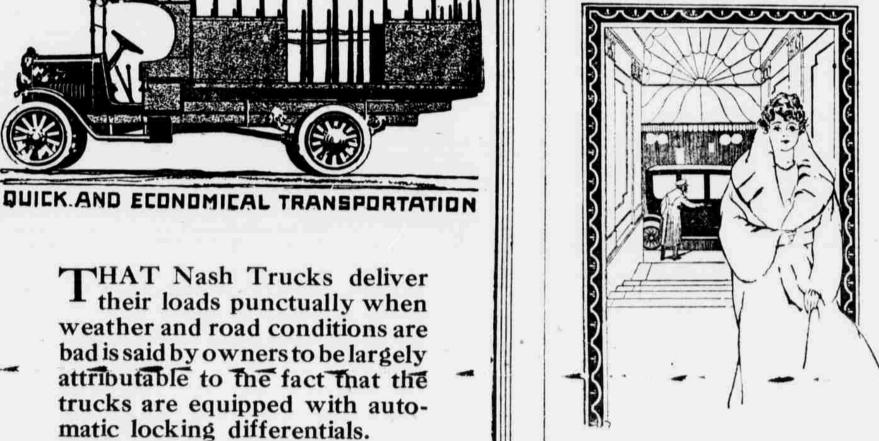
They have that clean-cut look resulting from proper proportions, accuracy of workmanship. Examine a Beth-lehem and get its story of "Dependable Delivery." 11/2 Ton Chassis 21/2 Ton Chassis 31/2 Ton Chassis

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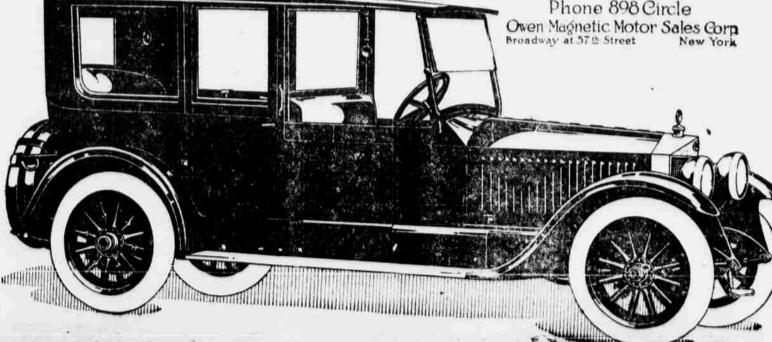
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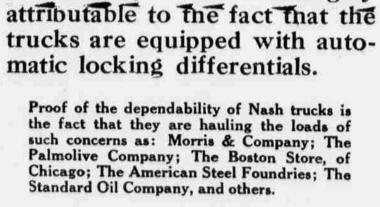
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